

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|--|------------------|---------|------------------|
| L1 | 104 | ((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in. | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2007/01/04 13:11 |
| L2 | 26636 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) or ((128/898).CCLS.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/04 13:14 |
| L3 | 48 | 1 and 2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/04 13:14 |
| L4 | 0 | ((method process) AND alter\$3 AND flow AND valve AND annulus AND energy AND heat\$3 AND cinching AND implant\$3).CLM. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/04 13:14 |
| L5 | 0 | ((method process) AND alter\$3 AND flow AND valve AND annulus AND energy AND heat\$3 AND cinch\$3 AND implant\$3).CLM. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/04 13:15 |

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| S1 | 82 | ((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in. | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2004/05/15 22:19 |
| S2 | 10472 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS. | USPAT; USOCR | OR | OFF | 2004/05/15 22:21 |
| S3 | 2580 | ((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS. | USPAT; USOCR | OR | OFF | 2004/05/15 22:22 |
| S4 | 12616 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2004/05/15 22:22 |
| S5 | 11 | ((modify change) same (geometry operation) same ((heart adj valve) or (annular adj valve)) same (thermal mechanical)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/15 22:23 |
| S6 | 2 | S1 and S5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/15 22:23 |
| S7 | 0 | "6626899".URPN. | USPAT | OR | ON | 2004/05/15 22:24 |
| S8 | 46 | ("4204283" "4492229" "4655773" "4731075" "5171252" "5275162" "5281218" "5290300" "5336252" "5443446" "5450860" "5454807" "5489298" "5489498" "5492119" "5496336" "5609598" "5639276" "5683402" "5725521" "5766234" "5769846" "5776189" "5810847" "5823342" "5824067" "5827203" "5827268" "5855552" "5860920" "5910155" "5928224" "5957916" "5972030" "5989284" "6004269" "6010531" "6014589" "6056743" "6086612" "6113631" "6149660" "6165183" "6187040" "6269819" "6283993").PN. | USPAT | OR | ON | 2004/05/15 22:24 |

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|-----|-------|---|-----------------|----|-----|------------------|
| S9 | 1 | "6669687" | USPAT | OR | ON | 2004/05/15 22:24 |
| S10 | 23 | ("5125926" "5275162" "5281218" "5336252" "5443446" "5454807" "5492119" "5673695" "5725521" "5766234" "5769846" "5827203" "5827268" "5855552" "5860920" "5957916" "5989284" "5997534" "6004269" "6012457" "6126682" "6152144" "6283962").PN. | USPAT | OR | ON | 2004/05/15 22:25 |
| S11 | 1 | ("5860920").PN. | USPAT; USOCR | OR | OFF | 2002/08/29 12:23 |
| S12 | 9 | ("4776349" "4777955" "4940064" "5228442" "5263493" "5275162" "5354297" "5358479" "5362926").PN. | USPAT | OR | ON | 2002/08/28 18:08 |
| S13 | 8 | (US-5860920-\$ or US-5358479-\$ or US-5263493-\$ or US-5354297-\$ or US-5228442-\$ or US-4940064-\$ or US-4776349-\$ or US-4777955-\$). did. | USPAT | OR | OFF | 2002/08/28 18:14 |
| S14 | 6 | "5860920".URPN. | USPAT | OR | ON | 2002/08/28 18:18 |
| S15 | 1 | ("5673695").PN. | USPAT; USOCR | OR | OFF | 2002/08/28 18:21 |
| S17 | 8914 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS. | USPAT; USOCR | OR | OFF | 2005/02/06 22:51 |
| S18 | 2206 | ((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS. | USPAT; USOCR | OR | OFF | 2004/05/15 22:22 |
| S19 | 10759 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2007/01/04 11:59 |
| S20 | 18 | ((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in.) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.)) | USPAT | OR | ON | 2002/08/29 13:01 |

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|-----|----|---|---|----|----|------------------|
| S21 | 5 | 'valvular degeneration' | USPAT | OR | ON | 2002/08/29 13:02 |
| S22 | 0 | ((((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in.) and ('valvular degeneration')) | USPAT | OR | ON | 2002/08/29 13:02 |
| S23 | 84 | treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/10 08:22 |
| S24 | 84 | treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae)) or (loose near2 (papillary adj muscle))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:20 |
| S25 | 0 | (((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ('valvular degeneration')) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:07 |
| S26 | 1 | ((((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in.) and (treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae)) or (loose near2 (papillary adj muscle)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:08 |
| S27 | 1 | (((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) and (treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae)) or (loose near2 (papillary adj muscle)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:21 |
| S28 | 6 | (modify change) same (geometry operation) same ((heart adj valve) or (annular adj valve)) same (thermal mechanical) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:29 |

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|-----|----|--|---|----|----|------------------|
| S29 | 3 | ((modify change) same (geometry operation) same ((heart adj valve) or (annular adj valve)) same (thermal mechanical)) and (((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/15 22:23 |
| S30 | 19 | (treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae)) or (loose near2 (papillary adj muscle)))) and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:30 |
| S31 | 0 | (thermal\$2 same treat\$5) same (chordea adj tendineae) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:33 |
| S32 | 0 | (thermal\$2 same treat\$5) same (chordea adj tendineae) or 'loose heart valve' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:33 |
| S33 | 51 | 'valvular regurgitation' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:35 |
| S34 | 48 | ('valvular regurgitation') and heart | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 13:35 |
| S35 | 1 | ((('valvular regurgitation') and heart) and catheter) and (thermal\$ same treat\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 16:27 |
| S36 | 29 | ((('valvular regurgitation') and heart) and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 16:42 |

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|-----|-----|--|---|----|----|------------------|
| S37 | 124 | (cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:41 |
| S38 | 20 | ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:38 |
| S39 | 3 | ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (shape near3 memory) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:42 |
| S40 | 6 | ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and alloy | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:43 |
| S41 | 15 | ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (suture adhesive weld hook clip) | USPAT | OR | ON | 2002/08/30 12:43 |

EAST Search History

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| S42 | 8 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and coating | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:44 |
| S43 | 0 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (coating adj layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:45 |
| S44 | 4 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and stylet | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:45 |
| S45 | 2 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (Nickel adj Titanium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:45 |
| S46 | 6 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (platinum same gold) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:46 |

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|-----|---|--|---|----|----|------------------|
| S47 | 0 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (sensor same (ultrasound doppler elctrode) or (pressure adj sensor))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 17:23 |
| S48 | 0 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (sensor\$1 same (ultrasound doppler elctrode) or (pressure adj sensor))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 17:25 |
| S49 | 0 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and (pressure adj sensor))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/29 17:25 |
| S50 | 6 | ((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14, 27-29,32,41-52,76-78,151,153-159, 205-209) or (607/9,14,96-101,115, 116,119)).CCLS.) or (((623/1.1,1.18, 1.26,1.3,1.34,1.36,1.37,1.38,1.46,2. 1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)). CCLS.))) and sensor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:46 |

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|-----|-------|---|---|----|-----|------------------|
| S51 | 1 | (((((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) and (((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.))) and sensor) and (ultrasound Doppler) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:47 |
| S52 | 5 | ((("6056743") or ("5891133") or ("5957916") or ("5725521") or ("5725523")).PN. | USPAT; USOCR | OR | OFF | 2002/08/30 12:33 |
| S53 | 8914 | ((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS. | USPAT; USOCR | OR | OFF | 2002/08/30 12:39 |
| S54 | 2206 | ((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS. | USPAT; USOCR | OR | OFF | 2002/08/30 12:39 |
| S55 | 361 | ((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) and (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2002/08/30 12:40 |
| S56 | 10759 | ((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2002/08/30 12:40 |
| S57 | 124 | (cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:41 |
| S58 | 20 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:41 |

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| S59 | 6 | ((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and alloy | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:43 |
| S60 | 15 | ((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (suture adhesive weld hook clip) | USPAT | OR | ON | 2002/08/30 12:44 |
| S61 | 8 | ((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and coating | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:44 |
| S62 | 4 | ((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and stylet | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:52 |
| S63 | 2 | ((((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2. 12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (Nickel adj Titanium) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:46 |

EAST Search History

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|-----|---|---|---|----|----|------------------|
| S64 | 6 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (platinum same gold) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:46 |
| S65 | 6 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and sensor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:46 |
| S66 | 1 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and sensor and (ultrasound Doppler) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:48 |
| S67 | 1 | ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and sensor) and (((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and sensor and (ultrasound Doppler)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:49 |

EAST Search History

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|-----|---|---|---|----|----|------------------|
| S68 | 2 | ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (shape near3 memory)) and (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (Nickel adj Titanium)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:50 |
| S69 | 8 | ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (suture adhesive weld hook clip)) and (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and coating) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:53 |

EAST Search History

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|-----|---|--|---|----|----|------------------|
| S70 | 0 | <p> (((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (suture adhesive weld hook clip)) and ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and coating)) and ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (Nickel adj Titanium)) </p> | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:53 |
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EAST Search History

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|-----|---|---|---|----|----|------------------|
| S71 | 2 | <p>(((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (suture adhesive weld hook clip)) and ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and coating)) and ((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (platinum same gold))</p> | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:55 |
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EAST Search History

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|-----|---|---|---|----|----|------------------|
| S72 | 1 | <p>((((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (suture adhesive weld hook clip)) and (((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and coating)) and (((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (platinum same gold))) and (((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and sensor) and (((((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and sensor and (ultrasound Doppler)))</p> | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 12:55 |
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EAST Search History

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| S73 | 3 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ((cinch\$3 or secur\$3 or grip\$3) same anchor\$3 same catheter same (heart valve))) and (shape near3 memory) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/08/30 15:18 |
| S74 | 7 | (modify change) same (geometry operation) same ((heart adj valve) or (annular adj valve)) same (thermal mechanical) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:37 |
| S75 | 720 | (modify change) same (geometry operation) same ((heart annular) same valve) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:38 |
| S76 | 0 | ((((modify change) same (geometry operation) same ((heart annular) same valve)) and anchor\$3) and cich\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:39 |
| S77 | 1 | ((((modify change) same (geometry operation) same ((heart annular) same valve)) and anchor\$3) and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:39 |
| S78 | 31 | ((modify change) same (geometry operation) same ((heart annular) same valve)) and anchor\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 13:05 |
| S79 | 1 | ((((modify change) same (geometry operation) same ((heart annular) same valve)) and catheter) and cinch\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 13:00 |
| S80 | 1 | ((((modify change) same (geometry operation) same ((heart annular) same valve)) and catheter) and anchor\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:48 |
| S81 | 24 | ((modify change) same (geometry operation) same ((heart annular) same valve)) and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:57 |

EAST Search History

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|-----|-------|--|---|----|-----|------------------|
| S82 | 7 | ((modify change) same (geometry operation) same ((heart annular) same valve)) and barb\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 12:57 |
| S83 | 34 | ((modify change) same (geometry operation) same ((heart annular) same valve)) and (anchor\$3 or fastner or staple) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 13:06 |
| S84 | 3 | ((((modify change) same (geometry operation) same ((heart annular) same valve)) and (anchor\$3 or fastner or staple)) not (((modify change) same (geometry operation) same ((heart annular) same valve)) and anchor\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2002/12/04 13:06 |
| S85 | 9597 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS. | USPAT; USOCR | OR | OFF | 2003/05/28 17:08 |
| S86 | 2367 | ((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS. | USPAT; USOCR | OR | OFF | 2003/05/28 17:12 |
| S87 | 399 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) and (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2003/05/28 17:12 |
| S88 | 11565 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS.) or (((623/1.1,1.18,1.26,1.3, 1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2003/05/28 17:12 |
| S89 | 67 | ((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in. | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2003/05/28 17:13 |

EAST Search History

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| S90 | 20 | (((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and (((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in.) | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2003/05/28 17:13 |
| S91 | 162 | 'valvular degeneration' | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:16 |
| S92 | 0 | (((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and ('valvular degeneration') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:17 |
| S93 | 1 | (((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in.) and ('valvular degeneration') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:17 |
| S94 | 131 | treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:18 |
| S95 | 131 | treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae)) or (loose near2 (papillary adj muscle))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:20 |
| S96 | 1 | (((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and (treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae))))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:25 |

EAST Search History

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|------|----|---|---|----|----|------------------|
| S97 | 0 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and "6420153".PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:21 |
| S98 | 1 | (((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.)) and (treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae))))) and (leaflet\$1 annulus) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:27 |
| S99 | 10 | (modify change) same (geometry operation) same ((heart adj valve) or (annular adj valve)) same (thermal mechanical) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2003/05/28 17:30 |
| S100 | 51 | treat\$5 same (valvular adj degeneration) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:53 |
| S101 | 11 | S100 and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:54 |
| S102 | 5 | S101 and (radiofrequency 'RF') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:54 |
| S103 | 6 | S101 not S102 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:47 |
| S104 | 5 | S100 and (radiofrequency 'RF') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:51 |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S10 5 | 1 | ("6269819").PN. | US-PGPUB; USPAT | OR | OFF | 2005/02/06 22:49 |
| S10 6 | 87 | ((Russell near2 Houser) or (Vahid near2 Sadaat) or (Ramee near2 Stephen)).in. | US-PGPUB; USPAT; EPO; JPO | OR | ON | 2005/02/06 22:51 |
| S10 7 | 11682 | ((606/7,13,14,27-29,32,41-52, 76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)). CCLS. | USPAT; USOCR | OR | OFF | 2005/02/06 22:51 |
| S10 8 | 135 | treat\$5 same (valvular same degeneration) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:51 |
| S10 9 | 19 | S108 and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:52 |
| S11 0 | 5 | S109 and (radiofrequency 'RF') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:52 |
| S11 1 | 5 | S108 and (radiofrequency 'RF') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:52 |
| S11 2 | 197 | treat\$5 same (valv\$3 adj regurgitat\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:53 |
| S11 3 | 141 | S112 and catheter | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:54 |
| S11 4 | 33 | S113 and (radiofrequency 'RF') | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:54 |
| S11 5 | 28 | S114 not S101 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:54 |

EAST Search History

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|----------|-------|---|---|----|-----|------------------|
| S11 6 | 13 | S115 and electrode\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/06 22:54 |
| S11 7 | 35 | (US-20010005787-\$ or US-20020016566-\$ or US-20020029080-\$ or US-20020035361-\$ or US-20020116030-\$).did. or (US-4776349-\$ or US-4777955-\$ or US-4940064-\$ or US-4985014-\$ or US-5228442-\$ or US-5263493-\$ or US-5313943-\$ or US-5354297-\$ or US-5358479-\$ or US-5425708-\$ or US-5492119-\$ or US-5545193-\$ or US-5673695-\$ or US-5725521-\$ or US-5792194-\$ or US-5855552-\$ or US-5860920-\$ or US-5865801-\$ or US-5868703-\$ or US-5919449-\$ or US-5957916-\$ or US-5972004-\$ or US-6056743-\$ or US-6162233-\$ or US-6269819-\$ or US-6332893-\$). did. or (US-6451025-\$ or US-6626899-\$ or US-6629534-\$ or US-6669687-\$).did. | US-PGPUB; USPAT | OR | OFF | 2005/10/31 12:06 |
| S11 8 | 14206 | "1" and ((alter\$3 same flow) and valve) | US-PGPUB; USPAT | OR | OFF | 2005/10/31 12:07 |
| S11 9 | 4 | S117 and ((alter\$3 same flow) and valve) | US-PGPUB; USPAT | OR | OFF | 2005/10/31 12:18 |
| S12 0 | 1 | ("6740107").PN. | USPAT; USOCR | OR | OFF | 2005/10/31 12:42 |
| S12 1 | 1 | ("6629534").PN. | USPAT; USOCR | OR | OFF | 2005/10/31 12:42 |
| S12 2 | 0 | (method AND (alter\$3 chang\$3) AND flow AND valve AND transfer AND energy AND heat\$3 AND unnulus AND implant\$3 AND (cinch\$3 tight\$5)).CLM. | US-PGPUB; USPAT | OR | ON | 2006/05/15 12:03 |
| S12 3 | 2 | ((("6626899") or ("6669687"))).PN. | USPAT; USOCR | OR | OFF | 2006/05/15 12:24 |
| S12 4 | 1 | ("6629534").PN. | USPAT; USOCR | OR | OFF | 2006/05/15 12:24 |
| S12 5 | 411 | treat\$5 same ((valvular adj degeneration) or (valvular adj disease) or (loos\$3 near2 (chordea adj tendineae))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/10 08:22 |

EAST Search History

| | | | | | | |
|----------|-------|--|-------|----|----|------------------|
| S12 6 | 14191 | ((((606/7,13,14,27-29,32,41-52,76-78,151,153-159,205-209) or (607/9,14,96-101,115,116,119)).CCLS.) or (((623/1.1,1.18,1.26,1.3,1.34,1.36,1.37,1.38,1.46,2.1,2.11,2.12,2.13,2.14) or (600/372-375) or (604/915-921)).CCLS.) | USPAT | OR | ON | 2006/07/10 08:22 |
| S12 7 | 2 | S125 and (heat\$3 same annulus) | USPAT | OR | ON | 2006/07/10 08:23 |
| S12 8 | 98 | S126 and (heat\$3 same annulus) | USPAT | OR | ON | 2006/07/10 08:23 |
| S12 9 | 66 | S128 and (chemical drug pharmaceutical aldehyde\$1) | USPAT | OR | ON | 2006/07/10 08:36 |
| S13 0 | 4 | S128 and (aldehyde\$1) | USPAT | OR | ON | 2006/07/10 08:24 |
| S13 1 | 4 | S129 and cinch\$5 | USPAT | OR | ON | 2006/07/10 09:28 |
| S13 2 | 1 | S130 and S131 | USPAT | OR | ON | 2006/07/10 08:43 |

| | 1 | Document ID | Title | Current OR |
|----|---|-------------------|---|------------|
| 1 | X | US 20010005787 A1 | Method and apparatus for circulatory valve repair | 606/142 |
| 2 | X | US 20020016566 A1 | Multichannel catheter | 604/102.03 |
| 3 | X | US 20020029080 A1 | Valve to myocardium tension members device and method | 623/2.36 |
| 4 | X | US 20020035361 A1 | Apparatus and methods for treating tissue | 606/15 |
| 5 | X | US 20020116030 A1 | Electrical stimulation of the sympathetic nerve chain | 607/9 |
| 6 | X | US 20040133192 A1 | Apparatus and methods for treating tissue | 606/14 |
| 7 | X | US 4776349 A | Tubular device for the treatment of hollow organs with electric current | 607/122 |
| 8 | X | US 4777955 A | Left ventricle mapping probe | 600/374 |
| 9 | X | US 4940064 A | Catheter for mapping and ablation and method therefor | 607/122 |
| 10 | X | US 4985014 A | Ventricular venting loop | 600/16 |
| 11 | X | US 5228442 A | Method for mapping, ablation, and stimulation using an endocardial catheter | 600/374 |
| 12 | X | US 5263493 A | Deflectable loop electrode array mapping and ablation catheter for cardiac chambers | 607/122 |
| 13 | X | US 5313943 A | Catheters and methods for performing cardiac diagnosis and treatment | 600/374 |
| 14 | X | US 5354297 A | Biplanar deflectable catheter for arrhythmogenic tissue ablation | 606/45 |
| 15 | X | US 5358479 A | Multiform twistable tip deflectable catheter | 604/95.04 |
| 16 | X | US 5425708 A | Catheter with an aorta-occluding balloon | 604/102.03 |
| 17 | X | US 5492119 A | Catheter tip stabilizing apparatus | 600/375 |
| 18 | X | US 5545193 A | Helically wound radio-frequency emitting electrodes for creating lesions in body tissue | 607/99 |

| | Inventor |
|----|------------------------------|
| 1 | Oz, Mehmet C. et al. |
| 2 | Bertolero, Arthur A. et al. |
| 3 | Mortier, Todd J. et al. |
| 4 | Houser, Russell A. et al. |
| 5 | Rezai, Ali R. |
| 6 | Houser, Russell A. et al. |
| 7 | Nashef; Basem et al. |
| 8 | Brayton; Dennis L. et al. |
| 9 | Desai; Jawahar M. |
| 10 | Orejola; Wilmo C. |
| 11 | Imran; Mir A. |
| 12 | Avitall; Boaz |
| 13 | Houser; Russell A. et al. |
| 14 | Avitall; Boaz |
| 15 | Wilson; James E. |
| 16 | Nasu; Norio |
| 17 | Abrams; Robert M. |
| 18 | Fleischman; Sidney D. et al. |

| | 1 | Document ID | Title | Current OR |
|----|---|---------------|--|------------|
| 19 | X | US 5673695 A | Methods for locating and ablating accessory pathways in the heart | 600/374 |
| 20 | X | US 5725521 A | Depth stop apparatus and method for laser-assisted transmyocardial revascularization and other surgical applications | 606/7 |
| 21 | X | US 5792194 A | Transvalvular impedance measurement | 607/17 |
| 22 | X | US 5855552 A | Catheter having ring electrodes secured thereon | 600/374 |
| 23 | X | US 5860920 A | Systems for locating and ablating accessory pathways in the heart | 600/374 |
| 24 | X | US 5865801 A | Multiple compartmented balloon catheter with external pressure sensing | 604/103.07 |
| 25 | X | US 5868703 A | Multichannel catheter | 604/102.01 |
| 26 | X | US 5919449 A | Porcine cardiomyocytes and their use in treatment of insufficient cardiac function | 424/93.7 |
| 27 | X | US 5957916 A | Myocardial revascularization through the endocardial surface using a laser | 606/15 |
| 28 | X | US 5972004 A | Wire fasteners for use in minimally invasive surgery and apparatus and methods for handling those fasteners | 606/142 |
| 29 | X | US 6056743 A | Percutaneous myocardial revascularization device and method | 606/15 |
| 30 | X | US 6161543 A | Methods of epicardial ablation for creating a lesion around the pulmonary veins | 128/898 |
| 31 | X | US 6162233 A | Wire fasteners for use in minimally invasive surgery and means and methods for handling those fasteners | 606/142 |
| 32 | X | US 6269819 B1 | Method and apparatus for circulatory valve repair | 128/898 |

| | Inventor |
|-----------|----------------------------------|
| 19 | McGee; David L. et al. |
| 20 | Mueller; Richard L. |
| 21 | Morra; Antonio |
| 22 | Houser; Russell A. et al. |
| 23 | McGee; David L. et al. |
| 24 | Houser; Russell A. |
| 25 | Bertolero; Arthur A. et al. |
| 26 | Dinsmore; Jonathan |
| 27 | Jeevanandam; Valluvan et al. |
| 28 | Williamson, IV; Warren P. et al. |
| 29 | Ellis; Louis et al. |
| 30 | Cox; James L. et al. |
| 31 | Williamson, IV; Warren P. et al. |
| 32 | Oz; Mehmet C. et al. |

| | 1 | Document ID | Title | Current OR |
|----|---|---------------|--|------------|
| 33 | X | US 6332893 B1 | Valve to myocardium tension members device and method | 623/2.36 |
| 34 | X | US 6409759 B1 | Harvested tissue heart valve with sewing rim | 623/2.13 |
| 35 | X | US 6451025 B1 | Prosthesis and method for deployment within a body lumen | 606/108 |
| 36 | X | US 6626899 B2 | Apparatus and methods for treating tissue | 606/14 |
| 37 | X | US 6629534 B1 | Methods and apparatus for cardiac valve repair | 128/898 |
| 38 | X | US 6669687 B1 | Apparatus and methods for treating tissue | 606/14 |

| | Inventor |
|-----------|------------------------------------|
| 33 | Mortier; Todd J. et al. |
| 34 | Peredo; Mario Osvaldo Vrandecic |
| 35 | Jervis; James E. |
| 36 | Houser; Russell A. et al. |
| 37 | St. Goar; Frederick G. et al. |
| 38 | Saadat; Vahid |